

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEINFORMATION DISCLOSURE STATEMENT
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ATTY. DOCKET NO.:
SY01113QSERIAL NO.:
09/303,040APPLICANT:
Winslow et al.CPA FILING DATE:
April 3, 2001GROUP:
1648

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U.S. PATENT DOCUMENTS

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
AA						

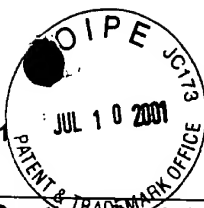
FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO
AB	WO 92/00092	01/09/92	WIPO	A61K	37/02	<input checked="" type="checkbox"/> <input type="checkbox"/>
AC	WO 92/15671	09/17/92	WIPO	C12N	5/00	<input type="checkbox"/> <input type="checkbox"/>
AD	WO 93/00431	01/07/93	WIPO	C12N	15/12	<input type="checkbox"/> <input type="checkbox"/>
AE	WO 96/03435	02/08/96	WIPO	C07K	14/57	<input type="checkbox"/> <input type="checkbox"/>

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AF	Akeson, A.L., "A fluorometric assay for the quantitation of cell adherence to endothelial cells," <i>Journal of Immunological Methods</i> , Vol. 163, pp. 181-185 (1993).
AG	Allison, J.P. et al., "Structure, Function, and Serology of the T-cell Antigen Receptor Complex," <i>Annu. Rev. Immunol.</i> , Vol. 5, pp. 503-540 (1987).
AH	Allison, J.P., "CD28-B7 interaction in T-cell activation," <i>Current Opinion in Immunology</i> , Vol. 6, pp. 414-419 (1994).
AI	Anderson, P. et al., "Regulatory interactions between members of the immunoglobulin superfamily," <i>Immunology Today</i> , Vol. 9, Nos. 7 and 8, pp. 199-203 (1988).
AJ	Antonia, S.J. et al., "B7-1 Expression by a Non-Antigen Presenting Cell-derived Tumor," <i>Cancer Research</i> , Vol. 55, pp. 2253-2256 (1995).
AK	Argyle, D.J. et al., "Nucleotide and predicted peptide sequence of feline interferon-gamma (IFN- γ)," <i>DNA Sequence--The Journal of Sequencing and Mapping</i> , Vol. 5, pp. 169-171 (1995).
AL	Arima, T. et al., "Inhibition by CTLA4Ig of Experimental Allergic Encephalomyelitis," <i>The Journal of Immunology</i> , Vol. 156, pp. 4916-4924 (1996).
AM	Arruffo, A., et al., "Molecular cloning of a CD28 cDNA by a high-efficiency COS cell expression system," <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 84, pp. 8573-8577 (1987).
AN	Asjo, B. et al., "A Novel Mode of Human Immunodeficiency Virus Type 1 (HIV-1) Activation: Ligation of CD28 Alone Induces HIV-1 Replication in Naturally Infected Lymphocytes," <i>Journal of Virology</i> , Vol. 67, No. 7, pp. 4395-4398 (1993).
AO	Azuma, M. et al., "Functional Expression of B7/BB1 on Activated T Lymphocytes," <i>J. Exp. Med.</i> , Vol. 177, pp. 845-850 (1993).
AP	Azuma, M. et al., "Involvement of CD28 in MHC-Unrestricted Cytotoxicity Mediated by a Human Natural Killer Leukemia Cell Line," <i>The Journal of Immunology</i> , Vol. 149, No. 4, pp. 1115-1123 (1992).
AQ	Azuma, M. et al., "Requirements for CD28-Dependent T Cell-Mediated Cytotoxicity," <i>The Journal of Immunology</i> , Vol. 150, No. 6, pp. 2091-2101 (1993).
AR	Azuma, M. et al., "B70 antigen is a second ligand for CTLA-4 and CD28," <i>Nature</i> , Vol. 366, pp. 76-79 (1993).
AS	Bajorath, J. et al., "Immunoglobulin fold characteristics of B7-1 (CD80) and B7-2 (CD86)," <i>Protein Science</i> , Vol. 3, pp. 2148-2150 (1994).
AT	Bajorath, J. et al., "Knowledge-based model building of proteins: Concepts and examples," <i>Protein Science</i> , Vol. 2, pp. 1798-1810 (1993).
AU	Balzano, C. et al., "CTLA-4 and CD28: Similar Proteins, Neighbouring Genes," <i>Int. J. Cancer: Supplement</i> , Vol. 7, pp. 28-32 (1992).

Serial No: 09/303,040
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 CPA filing date: April 3, 2001
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Sheet 2 of 7

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AV	Barcy, S. et al., "FcR cross-linking on monocytes results in impaired T cell stimulatory capacity," <i>International Immunology</i> , Vol. 7, No. 2, pp. 179-189 (1995).
AW	Beale, D., "A Comparison of the Amino Acid Sequences of the Extracellular Domains of the Immunoglobulin Superfamily. Possible Correlations Between Conservancy and Conformation," <i>Comp. Biochem. Physiol.</i> , Vol. 80B, No. 2, pp. 181-194 (1985).
AX	Bellone, M. et al., "In vitro priming of cytotoxic T lymphocytes against poorly immunogenic epitopes by engineered antigen presenting cells," <i>Eur. J. Immunol.</i> , Vol. 24, pp. 2691-2698 (1994).
AY	Berke, G., "The Binding and Lysis of Target Cells by Cytotoxic Lymphocytes: Molecular and Cellular Aspects," <i>Annu. Rev. Immunol.</i> , Vol. 12, pp. 735-773 (1994).
AZ	Berke, G., "The Functions and Mechanisms of Action of Cytolytic Lymphocytes," <i>Fundamental Immunology</i> , (W. Paul), New York: Raven Publ. 3d ed., pp. 965-1014 (1993).
BA	Boise, L.H. et al., "CD28 Costimulation Can Promote T Cell Survival by Enhancing the Expression of Bcl-x _L ," <i>Immunity</i> , Vol. 3, pp. 87-98 (1995).
BB	Brinchmann, J.E. et al., "Expression of Costimulatory Molecule CD28 on T Cells in Human Immunodeficiency Virus Type 1 Infection: Functional and Clinical Correlations," <i>The Journal of Infectious Diseases</i> , Vol. 169, pp. 730-738 (1994).
BC	Brown, W.C. et al., "Feline Immunodeficiency Virus Infects Both CD4 ⁺ and CD8 ⁺ T Lymphocytes," <i>Journal of Virology</i> , Vol. 65, No. 6, pp. 3359-3364 (1991).
BD	Buck, C.A., "Immunoglobulin superfamily: structure, function and relationship to other receptor molecules," <i>Seminars in Cell Biology</i> , Vol. 3, pp. 179-188 (1992).
BE	Buelens, C. et al., "Interleukin 10 differentially regulates B7-1 (CD80) and B7-2 (CD86) expression on human peripheral blood dendritic cells," <i>Eur. J. Immunol.</i> , Vol. 25, pp. 2668-2672 (1995).
BF	Caruso, A. et al., "Expression of CD28 on CD8 ⁺ and CD4 ⁺ Lymphocytes During HIV Infection," <i>Scand. J. Immunol.</i> , Vol. 40, pp. 485-490 (1994).
BG	Cerdan, C. et al., "IL-1 α is Produced by T Lymphocytes Activated Via the CD2 Plus CD28 Pathways," <i>The Journal of Immunology</i> , Vol. 146, No.2, pp. 560-564 (1991).
BH	Chambers, C.A., et al., "Co-stimulation in T cell responses," <i>Current Opinion in Immunology</i> , Vol. 9, pp. 396-404 (1997).
BI	Chen, L. et al., "Costimulation of Antitumor Immunity by the B7 Counterreceptor for the T Lymphocyte Molecules CD28 and CTLA-4," <i>Cell</i> , Vol. 71, pp. 1093-1102 (1992).
BJ	Chen, L. et al., "Costimulation of T cells for tumor immunity," <i>Immunology Today</i> , Vol. 14, No. 10, pp. 483-486 (1993).
BK	Chen, L. et al., "Induction of Cytotoxic T Lymphocytes Specific for a Syngeneic Tumor Expressing the E6 Oncoprotein of Human Papillomavirus Type 16," <i>The Journal of Immunology</i> , Vol. 148, No. 8, pp. 2617-2621 (1992).
BL	Chesnut, R.W. et al., "Antigen Presentation by B Cells and its Significance in T-B Interactions," <i>Advances in Immunology</i> , Vol. 39, pp. 51-94 (1986).
BM	Clark, S.J. et al., "High Titers of Cytopathic Virus in Plasma of Patients With Symptomatic of Primary HIV-1 Infection," <i>The New England Journal of Medicine</i> , Vol. 324, No. 14, pp. 954-960 (1991).
BN	Clayberger, C. et al., "Peptides Corresponding to the CD8 and CD4 Binding Domains of HLA Molecules Block T Lymphocyte Immune Responses In Vitro," <i>The Journal of Immunology</i> , Vol. 153, pp. 946-951 (1994).
BO	Clevers, H. et al., "The T Cell Receptor/CD3 Complex: A Dynamic Protein Ensemble," <i>Annu. Rev. Immunol.</i> , Vol. 6, pp. 629-662 (1988).
BP	Connor, R.I. et al., "Increased Viral Burden and Cytopathicity Correlate Temporarily With CD4 ⁺ T-Lymphocyte Decline and Clinical Progression in Human Immunodeficiency Virus Type 1-Infected Individuals," <i>Journal of Virology</i> , Vol. 67, No. 4, pp. 1772-1777 (1993).
BQ	Cooper, D.A. et al., "Characterization of T Lymphocyte Responses During Primary Infection With Human Immunodeficiency Virus," <i>Journal of Infectious Diseases</i> , Vol. 157, No. 5, pp. 889-896 (1988).
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BT	Davis, M.M. et al., "T-cell antigen receptor genes and T-cell recognition," <i>Nature</i> , Vol. 334, pp. 395-402 (1988).

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OTHER DOCUMENTS (Continued) (Including Author, Title, Date, Pertinent Pages, Etc.)

BU	de Boer, M. et al., "Ligation of B7 with CD28/CTLA-4 on T-cells results in CD40 ligand expression, interleukin-4 secretion and efficient help for antibody production by B cells," <i>Eur. J. Immunol.</i> , Vol. 23, pp. 3120-3125 (1993).
BV	deWaal, M. et al., "Direct Effects of IL-10 on Subsets of Human CD4 ⁺ T Cell Clones and Resting T Cells. Specific Inhibition of IL-2 Production and Proliferation," <i>The Journal of Immunology</i> , Vol. 150, No. 11, pp. 4754-4765 (1993).
BW	Ding, L. et al., "IL-10 Inhibits Macrophage Costimulatory Activity by Selectively Inhibiting Up-Regulation of B7 Expression," <i>The Journal of Immunology</i> , Vol. 151, No. 3, pp. 1224-1234 (1993).
BX	Donnelly, J.J. et al., "DNA Vaccines," <i>Annu. Rev. Immunol.</i> , Vol. 15, pp. 617-648 (1997).
BY	Driscoll, P.C. et al., "Structure of domain 1 of rat T-lymphocyte CD2 antigen," <i>Nature</i> , Vol. 353, pp. 762-765 (1991).
BZ	Ellis, J.H. et al., "Interactions of CD80 and CD86 with CD28 and CTLA4," <i>The Journal of Immunology</i> , Vol. 156, pp. 2700-2709 (1996).
CA	Englehard, V.H., "Structure of peptides associated with MHC class I molecules," <i>Current Opinion in Immunology</i> , Vol. 6, pp. 13-21 (1994).
CB	English, R.V. et al., "Development of Clinical Disease in Cats Experimentally Infected With Feline Immunodeficiency Virus," <i>The Journal of Infectious Diseases</i> , Vol. 170, pp. 543-552 (1994).
CC	Fauci, A., et al., "Acquired Immunodeficiency Syndrome: Epidemiologic, Clinical, Immunologic, and Therapeutic Considerations," <i>Annals of Internal Medicine</i> , Vol. 100, pp. 92-106 (1984).
CD	Fauci, A.S. et al., "The Effect of Hydrocortisone on the Kinetics of Normal Human Lymphocytes," <i>Blood</i> , Vol. 46, No. 2, pp. 235-243 (1975).
CE	Ferrari, F.A. et al., "Sequence Analysis of the <i>spoOB</i> Locus Reveals a Polycistronic Transcription Unit," <i>Journal of Bacteriology</i> , Vol. 161, No. 2, pp. 556-562 (1985).
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CI	Freeman et al., "Structure, Expression, and T Cell Costimulatory Activity of the Murine Homologue of the Human B Lymphocyte Activation Antigen B7," <i>J. Exp. Med.</i> , Vol. 174, pp. 625-631 (1991).
CJ	Freeman, G.J. et al., "B7, A New Member of the Ig Superfamily With Unique Expression on Activated and Neoplastic B Cells," <i>The Journal of Immunology</i> , Vol. 143, No. 8, pp. 2714-2722 (1989).
CK	Freeman, G.J. et al., "Uncovering a Functional Alternative CTLA-4 Counter-Receptor in B7-Deficient Mice," <i>Science</i> , Vol. 262, pp. 907-909 (1993).
CL	Gajewski, T.F. et al., "Regulation of T-Cell Activation: Differences among T-Cell Subsets," <i>Immunological Reviews</i> , Vol. 111, pp. 79-110 (1989).
CM	Germain, R.N., "The Biochemistry and Cell Biology of Antigen Processing and Presentation," <i>Annu. Rev. Immunol.</i> , Vol. 11, pp. 403-450 (1993).
CN	Gimmi, C.D. et al., "B-cell surface antigen B7 provides a costimulatory signal that induces T cells to proliferate and secrete interleukin 2," <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 88, pp. 6575-6579 (1991).
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CQ	Hash, S.M., "Cloning, Sequencing, Expression and Characterization of the Feline CD28/CD80 Accessory Signaling Complex," Ph.D. Dissertation, A&M University, Texas, U.S.A. (1997).
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CS	Hathcock, K.S. et al., "Comparative Analysis of B7-1 and B7-2 Costimulatory Ligands: Expression and Function," <i>The Journal of Experimental Medicine</i> , Vol. 180, 631-640 (1994).



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CV	Jenkins, M.K. et al., "CD28 Delivers a Costimulatory Signal Involved in Antigen-Specific IL-2 Production by Human T Cells," <i>The Journal of Immunology</i> , Vol. 147, No. 8, pp. 2461-2466 (1991).
CW	Jenkins, M.K. et al., "T-Cell Unresponsiveness <i>in vivo</i> and <i>in vitro</i> : Fine Specificity of Induction and Molecular Characterization of the Unresponsive State," <i>Immunological Reviews</i> , Vol. 95, pp. 113-135 (1987).
CX	June, C.H. et al., "Role of the CD28 receptor in T-cell activation," <i>Immunology Today</i> , Vol. 11, No. 6, pp. 211-216 (1990).
CY	June, C.H. et al., "The B7 and CD28 receptor families," <i>Immunology Today</i> , Vol. 15, No. 7, pp. 321-333 (1994).
CZ	Knight, J.C. et al., <i>Virology</i> , Vol. 190, pp. 423-433 (1992).
DA	Kozbor, D. et al., "Tp44 Molecules Involved in Antigen-Independent T Cell Activation are Expressed on Human Plasma Cells," <i>The Journal of Immunology</i> , Vol. 138, No. 12, pp. 4128-4132 (1987).
DB	Kupfer, A. et al., "Cell Biology of Cytotoxic and Helper T Cell Functions: Immunofluorescence Microscopic Studies of Single Cells and Cell Couples," <i>Annu. Rev. Immunol.</i> , Vol. 7, pp. 309-337 (1989).
DC	Landay, A.L. et al., "An Activated CD8+ T Cell Phenotype Correlates with Anti-HIV Activity and Asymptomatic Clinical Status," <i>Clinical Immunology and Immunopathology</i> , Vol. 69, No. 1, pp. 106-116 (1993).
DD	Lane, P. et al., "B Cell Function in Mice Transgenic for mCTLA4-Hy1: Lack of Germinal Centers Correlated with Poor Affinity Maturation and Class Switching Despite Normal Priming of CD4+ T Cells," <i>J. Exp. Med.</i> , Vol. 179, pp. 819-830 (1994).
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DG	Leahy, D. J. et al., "Crystal Structure of a Soluble Form of the Human T Cell Coreceptor CD8 at 2.6 Å Resolution," <i>Cell</i> , Vol. 68, pp. 1145-1162 (1992).
DH	Lechler, R.I. et al., "The molecular basis of alloreactivity," <i>Immunology Today</i> , Vol. 11, No. 3, pp. 83-88 (1990).
DI	Lenschow, D.J. et al., "CD28/B7 System of T Cell Costimulation," <i>Annu. Rev. Immunol.</i> , Vol. 14, pp. 233-258 (1996).
DJ	Lenschow, D.J. et al., "Expression and functional significance of an additional ligand for CTLA-4," <i>Proc. Nat. Acad. Sci. USA</i> , Vol. 90, pp. 11054-11058 (1993).
DK	Leung, H.T. et al., "The CD28 costimulatory pathway," <i>Therapeutic Immunology</i> , Vol. 1, pp. 217-228 (1994).
DL	Lewis, D.E. et al., "Anergy and Apoptosis in CD8+ T Cells from HIV Infected Persons," <i>The Journal of Immunology</i> , Vol. 153, pp. 412-420 (1994).
DM	Li, Y. et al., "Costimulation of Tumor Reactive CD4+ and CD8+ T Lymphocytes by B7, a Natural Ligand for CD28, Can Be Used to Treat Established Mouse Melanoma," <i>The Journal of Immunology</i> , Vol. 153, pp. 421-428 (1994).
DN	Lindsten, T. et al., "Characterization of CTLA-4 Structure and Expression on Human T Cells," <i>The Journal of Immunology</i> , Vol. 151, pp. 3489-3499 (1993).
DO	Linsley, P. S. et al., "T-cell antigen CD28 mediates adhesion with B cells by interacting with activation antigen B7/BB-1," <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 87, pp. 5031-5035 (1990).
DP	Linsley, P.S. et al., "Binding of the B Cell Activation Antigen B7 to CD28 Costimulates T Cell Proliferation and Interleukin 2 mRNA Accumulation," <i>J. Exp. Med.</i> , Vol. 173, pp. 721-730 (1991).
DQ	Linsley, P.S. et al., "Binding Stoichiometry of the Cytotoxic T Lymphocyte-associated Molecule-4 (CTLA-4)," <i>The Journal of Biological Chemistry</i> , Vol. 270, No. 25, pp. 15417-15424 (1995).
DR	Linsley, P.S. et al., "CD28 Engagement by B7/BB-1 Induces Transient Down-Regulation of CD28 Synthesis and Prolonged Unresponsiveness to CD28 Signaling," <i>The Journal of Immunology</i> , Vol. 150, No. 8, pp. 3161-3169 (1993).



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DT	Linsley, P.S. et al., "Coexpression and Functional Cooperation of CTLA-4 and CD28 on Activated T Lymphocytes," <i>J. Exp. Med.</i> , Vol. 176, pp. 1595-1604 (1992).
DU	Linsley, P.S. et al., "CTLA-4 is a Second Receptor for the B Cell Activation Antigen B7," <i>J. Exp. Med.</i> , Vol. 174, pp. 561-569 (1991).
DV	Linsley, P.S. et al., "Extending the B7 (CD80) gene family," <i>Protein Science</i> , Vol. 3, pp. 1341-1343 (1994).
DW	Linsley, P.S. et al., "Human B7-1 (CD80) and B7-2 (CD86) Bind with Similar Avidities but Distinct Kinetics to CD28 and CTLA-4 Receptors," <i>Immunity</i> , Vol. 1, pp. 793-801 (1994).
DX	Linsley, P.S. et al., "Immunosuppression in Vivo by a Soluble Form of the CTLA-4 T Cell Activation Molecule," <i>Science</i> , Vol. 257, pp. 792-795 (1992).
DY	Linsley, P.S. et al., "The Role of CD28 Receptor During T Cell Responses to Antigen," <i>Annu. Rev. Immunol.</i> , Vol. 11, pp. 191-212 (1993).
DZ	Littman, D.R., "The Structure of the CD4 and CD8 Genes," <i>Ann. Rev. Immunol.</i> , Vol. 5, pp. 561-584 (1987).
EA	Liu, C.C. et al., "Perforin: structure and function," <i>Immunology Today</i> , Vol. 16, No. 4, pp. 194-201 (1995).
EB	Liu, Y. et al., "Co-stimulation of murine CD4 T cell growth: cooperation between B7 and heat-stable antigen," <i>Eur. J. Immunol.</i> , Vol. 22, pp. 2855-2859 (1992).
EC	Lombardi, S. et al., "A Neutralizing Antibody-Inducing Peptide of the V3 Domain of Feline Immunodeficiency Virus Envelope Glycoprotein Does Not Induce Protective Immunity," <i>The Journal of Virology</i> , Vol. 68, No. 12, pp. 8374-8379 (1994).
ED	Lu, Y. et al., "CD28-Induced T Cell Activation. Evidence for a Protein-Tyrosine Kinase Signal Transduction Pathway," <i>The Journal of Immunology</i> , Vol. 149, No. 1, pp. 24-29 (1992).
EE	Lwoff, A., "The Concept of Virus," <i>The Journal of General Microbiology</i> , Vol. 17, No. 1, pp. 239-253 (1957).
EF	Martin, P.J. et al., "A 44 Kilodalton Cell Surface Homodimer Regulates Interleukin 2 Production by Activated Human T Lymphocytes," <i>The Journal of Immunology</i> , Vol. 136, No. 9, pp. 3282-3287 (1986).
EG	Matsumura, M. et al., "Emerging Principles for the Recognition of Peptide Antigens by MHC Class I Molecules," <i>Science</i> , Vol. 257, pp. 927-934 (1992).
EH	Mescher, M.F., "Surface Contact Requirements for Activation of Cytotoxic T Lymphocytes," <i>The Journal of Immunology</i> , Vol. 149, No. 7, pp. 2402-2405 (1992).
EI	Minty, A. et al., "Interleukin-13 is a new human lymphokine regulating inflammatory and immune responses," <i>Nature</i> , Vol. 362, pp. 248-250 (1993).
EJ	Moffett, C.W. et al., "Microglia in the rat neurohypophysis increase expression of class I major histocompatibility antigens following central nervous system injury," <i>Journal of Neuroimmunology</i> , Vol. 50, pp. 139-151 (1994).
EK	Mosmann, T. R. et al., "TH1 and TH2 Cells: Different Patterns of Lymphokine Secretion Lead to Different Functional Properties," <i>Ann. Rev. Immunol.</i> , Vol. 7, pp. 145-173 (1989).
EL	Nabavi, N. et al., "Signaling through the MHC Class II cytoplasmic domain is required for antigen presentation and induces B7 expression," <i>Nature</i> , Vol. 360, pp. 266-268 (1992).
EM	Nagata, S. et al., "The Fas Death Factor," <i>Science</i> , Vol. 267, pp. 1449-1456 (1995).
EN	Nickoloff, B.J. et al., "Discordant Expression of CD28 Ligands, BB-1 and B7 on Keratinocytes in Vitro and Psoriatic Cells in Vivo," <i>American Journal of Pathology</i> , Vol. 142, No. 4, pp. 1029-1040 (1993).
EO	Novotney, C. et al., "Lymphocyte population changes in cats naturally infected with feline immunodeficiency virus," <i>AIDS</i> , Vol. 4, pp. 1213-1218 (1990).
EP	O'Doherty, U. et al., "Dendritic cells freshly isolate from human blood express CD4 and mature into typical immunostimulatory dendritic cells after culture in monocyte-conditioned media," <i>J. Exp. Med.</i> , Vol. 178, pp. 1067-1076 (1993).
EQ	Ozawa, H. et al., "Interferon gamma and interleukin 10 inhibit antigen presentation by Langerhans cells for T helper type 1 cells by suppressing their CD80 (B7-1) expression," <i>Eur. J. Immunol.</i> , Vol. 26, pp. 648-652 (1995).
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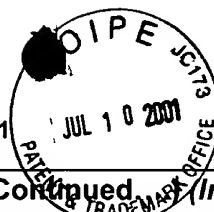


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Sheet 7 of 7



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